

WHAT IS CLAIMED IS:

1. An image sensing apparatus for capturing an image of object by an image sensing element, comprising:
 - 5 power supply unit configured to supply an electric power to the image sensing apparatus;
 - detection unit configured to detect an electric power supplied from said power supply unit;
 - designation unit configured to designate a shift 10 to a cleaning mode to remove a foreign substance in a neighborhood of and on a photoreceptive surface of the image sensing element; and
 - warning issuance unit configured to issue a warning in a case where the electric power detected by 15 said detection unit declines to a first predetermined value or less during execution of the cleaning mode designated by said designation unit.
2. The image sensing apparatus according to claim 1, 20 further comprising termination unit configured to forcefully terminate the cleaning mode in a case where the electric power detected by said detection unit declines to a second predetermined value or less, which is a smaller value than the first predetermined value, 25 during execution of the cleaning mode.
3. The image sensing apparatus according to claim 1,

further comprising prohibition unit configured to prohibit the shift to the cleaning mode in response to designation by said designation unit in a case where the electric power detected by said detection unit is
5 the first predetermined value or less.

4. A single lens reflex image sensing apparatus for capturing an image of object by an image sensing element, comprising:

10 power supply unit configured to supply electric power to the image sensing apparatus;
detection unit configured to detect an electric power supplied from said power supply unit;
designation unit configured to designate a shift
15 to a cleaning mode to remove a foreign substance in a neighborhood of and on a photoreceptive surface of the image sensing element;
cleaning mode setting unit configured to set the cleaning mode by moving up a mirror for the single lens
20 reflex and making a shutter front curtain to travel;
and
warning issuance unit configured to issue a warning in a case where the electric power detected by said detection unit declines to a first predetermined
25 value or less in a state where the cleaning mode is set by said cleaning mode setting unit in accordance with designation of said designation unit.

5. The image sensing apparatus according to claim 4,
further comprising unit configured to move down the
mirror in a case where the electric power detected by
5 said detection unit declines to a second predetermined
value or less, which is a smaller value than the first
predetermined value, during execution of the cleaning
mode.

10 6. The image sensing apparatus according to claim 4,
further comprising unit configured to make a shutter
rear curtain to travel when the cleaning mode is
terminated.

15 7. The image sensing apparatus according to claim 4,
further comprising unit configured to prohibit said
cleaning mode setting unit from setting the cleaning
mode in response to designation by said designation
unit in a case where the electric power detected by
20 said detection unit is the first predetermined value or
less.

8. A control method of an image sensing apparatus
for capturing an image of object by an image sensing
25 element, comprising:
a detection step of detecting electric power
supplied to the image sensing apparatus;

a designation step of designating a shift to a cleaning mode to remove a foreign substance in a neighborhood of and on a photoreceptive surface of the image sensing element; and

5 a warning issuance step of issuing a warning in a case where the electric power detected in said detection step declines to a first predetermined value or less during execution of the cleaning mode designated in said designation step.

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9. The control method according to claim 8, further comprising a termination step of forcefully terminating the cleaning mode in a case where the electric power detected in said detection step declines to a second predetermined value or less, which is a smaller value than the first predetermined value, during execution of the cleaning mode.

10. The control method according to claim 8, further comprising a prohibition step of prohibiting the shift to the cleaning mode in response to designation in said designation step in a case where the electric power detected in said detection step is the first predetermined value or less.

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11. A control method of a single lens reflex image sensing apparatus for capturing an image of object by

an image sensing element, comprising:

a detection step of detecting electric power supplied to the image sensing apparatus;

a designation step of designating a shift to a

5 cleaning mode to remove a foreign substance in a neighborhood of and on a photoreceptive surface of the image sensing element;

a cleaning mode setting step of setting the cleaning mode by moving up a mirror for the single lens

10 reflex and making a shutter front curtain to travel; and

a warning issuance step of issuing a warning in a case where the electric power detected in said detection step declines to a first predetermined value

15 or less in a state where the cleaning mode is set in said cleaning mode setting step in accordance with designation in said designation step.

12. The control method according to claim 11, further

20 comprising a termination step of forcefully terminating the cleaning mode by moving down the mirror in a case where the electric power detected in said detection step declines to a second predetermined value or less, which is a smaller value than the first predetermined

25 value, during execution of the cleaning mode.

13. The control method according to claim 11, further

comprising a step of making a shutter rear curtain to travel when the cleaning mode is terminated.

14. The control method according to claim 11, further
5 comprising a step of prohibiting setting of the cleaning mode in said cleaning mode setting step in response to designation of said designation step in a case where the electric power detected in said detection step is the first predetermined value or
10 less.

15. An image sensing apparatus comprising:
an image sensing element for sensing an object of shooting;
15 control unit configured to cause a shift to a cleaning mode to remove a foreign substance in a neighborhood of and on a photoreceptive surface of said image sensing element;
power supply unit configured to supply electric
20 power;
detection unit configured to detect an electric power level supplied from said power supply unit during the cleaning mode; and
warning unit configured to issue a warning to
25 terminate the cleaning mode in accordance with a detection result of said detection unit.

16. The image sensing apparatus according to claim
15, further comprising sound production unit configured
to generate sound,

wherein said warning unit issues a warning using
5 said sound production unit.

17. The image sensing apparatus according to claim
15, further comprising indicator unit,

wherein said warning unit issues a warning using
10 said indicator unit.

18. The image sensing apparatus according to claim
15, further comprising mirror moving unit configured to
position a mirror arranged on an image sensing optical
15 axis to a first state at the time of non-photographing
state so as to introduce an object image to an optical
finder, and positioning the mirror to a second state at
the time of photographing so as to evacuate the mirror
from the image sensing optical axis,

20 wherein said warning unit issues a warning by
moving the mirror from the second state to the first
state using said mirror moving unit.

19. The image sensing apparatus according to claim
25 15, wherein said warning unit includes a first warning
level which issues a warning using said sound
production unit or said indicator unit in accordance

with the electric power level, and a second warning level which issues a warning using said mirror moving unit.

5 20. A single lens reflex image sensing apparatus for capturing an image of object by an image sensing element, comprising:

 a battery for supplying electric power;

 an operation unit configured to designate a

10 cleaning mode to remove a foreign substance in a neighborhood of and on a photoreceptive surface of the image sensing element;

 a voltage detector configured to detect an output voltage of said battery;

15 a mirror controller configured to move up/down a mirror;

 unit configured to allow removal of the foreign substance by moving up the mirror by said mirror controller in accordance with designation from said 20 operation unit, in a case where the output voltage detected by said voltage detector is a first predetermined value or more;

 warning unit configured to issue a warning in a case where the output voltage detected by said voltage 25 detector declines to the first predetermined value or less during the cleaning mode; and

 unit configured to move down the mirror using

said mirror controller in a case where the output voltage detected by said voltage detector declines to a second predetermined value or less, which is a smaller value than the first predetermined value, during
5 execution of the cleaning mode.

21. A control method of a single lens reflex image sensing apparatus for capturing an image of object by an image sensing element, comprising:

10 a step of allowing removal of a foreign substance by moving up a mirror in a case where an output voltage of a battery is a first predetermined value or more upon designation of a cleaning mode which is provided for cleaning a foreign substance in a neighborhood of
15 and on a photoreceptive surface of the image sensing element;

a step of issuing a warning in a case where the output voltage of the battery declines to the first predetermined value or less during the cleaning mode;

20 and

a step of moving down the mirror in a case where the output voltage of the battery declines to a second predetermined value or less, which is a smaller value than the first predetermined value, during execution of
25 the cleaning mode.